

Main Line | 803 | 737-0800 Legal Department: | 803 | 737<u>-</u>0877

FLORENCE P. BELSER GENERAL COUNSEL SC PUBLIC COMM 4: 33

February 10, 2005

Mr. Charles L.A. Terreni Chief Clerk/Administrator South Carolina Public Service Commission 101 Executive Center Dr., Suite 100 Columbia, SC 29210

Re:

Application of Midlands Utility, Inc. for an approval of New Schedule of Rates and Charges for Sewage Service provided to its customers in Richland, Lexington, Fairfield and Orangeburg Counties.

PSC Docket No.: 2004-297-S

### Dear Charles:

Enclosed for filing please find twenty-six copies of direct testimony for the following Office of Regulatory Staff witnesses: Dawn Hipp, Willie Morgan, and Roy Barnette. Please date stamp the extra copy enclosed and return it to me via person delivery same.

Please let me know if you have any questions.

Singerely

Florence P. Belser

FPB/cc Enclosures

cc: Charles Cook, Esquire

### **BEFORE**

### THE PUBLIC SERVICE COMMISSION

### **OF SOUTH CAROLINA**

**DOCKET NO. 2004-297-S** 

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IN RE: Application of MIDLANDS	,		¥10		
UTILITIES, INC. for an Approval	)				No. of
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Charges For Sewage Service	) (	CERTIFICATE OF S	EKVICI	5	
Provided to its Customers in	)		2 3	÷.	
Richland, Lexington, Fairfield and	)		m	W.	Nonestri.
Orangeburg Counties.	)				
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This is to certify that I, Cindy Clary, an employee with the Office of Regulatory Staff, have this date served one (1) copy of the Direct Testimony and Exhibits of: Dawn M. Hipp, Willie J. Morgan, and Roy Barnette in the above-referenced matter to the person(s) named below by causing said copy to be deposited in the United States Postal Service, first class postage prepaid and affixed thereto, and addressed as shown below:

Charles Cook, Esquire
Elliott & Elliott, P.A.
721 Olive Street
Columbia, South Carolina 29205

Cindy Clary Clary

February 10, 2005 Columbia, South Carolina

# THE OFFICE OF REGULATORY STAFF DIRECT TESTIMONY AND EXHIBITS

**OF** 

**WILLIE J. MORGAN** 



DOCKET NO. 2004-297-S
MIDLANDS UTILITY, INC.
APPLICATION FOR RATE INCREASE
TEST YEAR ENDED DECEMBER 31, 2003

1		
2		TESTIMONY OF WILLIE J. MORGAN
3		FOR S S
4		THE OFFICE OF REGULATORY STAFF
5		DOCKET NO. 2004-297-S
6		IN RE: MIDLANDS UTILITY, INC.
7		√ı.
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10	Q.	PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND
11		OCCUPATION.
12	A.	My name is Willie J. Morgan, and my business address is 1441 Main Street, Suite
13		300, Columbia, South Carolina 29201. I am employed by the state of South
14		Carolina, Office of Regulatory Staff (ORS) as the Program Manager for the Water
15		and Wastewater Department.
16	Q.	PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND
17		EXPERIENCE.
18	A.	I received a Bachelor of Science Degree in Engineering from the University of
19		South Carolina in 1985 and a Master of Arts Degree in Management from
20		Webster University in 2000. I am a licensed Professional Engineer registered in
21		the state of South Carolina. My professional affiliations are as a member of the
22		American Water Works Association (AWWA) and the South Carolina Section of
23		the American Water Works Association (SC-AWWA). After graduation from the

1		University of South Carolina, I was employed by the South Carolina Department
2		of Health and Environmental Control (DHEC) as an Environmental Engineer
3		Associate. Later, I was promoted to the position of Permitting Liaison where I
4		assisted industries and the public with environmental permitting requirements in
5		the state of South Carolina. This assistance included providing information about
6		air quality, solid and hazardous waste management, and water and wastewater
7		management requirements. I was employed by DHEC for nineteen years. On
8		October 2, 2004, I joined the Office of Regulatory Staff as the Program Manager
9		for the Water and Wastewater Department.
10	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY INVOLVING
11		MIDLANDS UTILITY, INC. FOR THIS PROCEEDING?
12	A.	The purpose of my testimony is to set forth my findings and the ORS staff's
13		findings relative to a review of the rate increase application submitted by
14		Midlands Utility, Inc. ("MUI") and the on-site audit. Specifically, I will focus on
15		the facility's engineering and planned construction activities, environmental
16		compliance issues, 208 Plan relationship, and depreciation.
17	Q.	ARE YOUR FINDINGS AND THE ORS STAFF'S FINDINGS SET FORTH
18		IN YOUR TESTIMONY AND ATTACHED EXHIBITS?
19	A.	Yes.
20	Q.	PLEASE EXPLAIN HOW YOU COMPILED INFORMATION FOR YOUR
21		REVIEW.
22	A.	I used information provided by MUI in its application, data request responses, and
23		information gathered through on-site visits. I further consulted with and used

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information from DHEC, wastewater treatment facility vendors, the National
Association of Regulatory Utility Commissioners (NARUC), and the Central
Midlands Council of Governments ("COG"). Using this information, ORS staff
determined the amount of additional operating revenues that would be produced
by the proposed rates. Also, we were able to obtain a better understanding of
MUI's loan agreement, system design structure, and utility needs.

### 7 O. PLEASE EXPLAIN EXHIBIT WJM-1 AND WJM-2 OF YOUR REPORT.

Exhibit WJM-1, is a schematic showing the location of the three wastewater treatment facilities (WWTFs) and the various wastewater collection facilities that are owned and operated by MUI. MUI is owned by Mr. Keith Parnell and Mr. Charles K. Parnell. Also, the Parnells own two other wastewater utilities, Development Service, Inc. (DSI) and Bush River Utilities, Inc. (BRUI). MUI However, there are several customers are mainly residential customers. commercial customers on its systems as well. MUI has facilities in Richland, Lexington, Orangeburg, and Fairfield Counties. As shown in Exhibit WJM-2, MUI's systems in Orangeburg and Fairfield Counties are all wastewater collection systems that discharge collected wastewater to the local municipal systems for treatment. Also, MUI has three wastewater collection systems in Lexington County. The Vanaressdale subdivision area in Lexington County discharges its collected wastewater to Carolina Water Service, Inc. for treatment. discharges the collected wastewater from the other two collection systems to the City of Cayce which provides treatment. The three WWTF that are owned by MUI are located in Richland (1) and Lexington (2) Counties.

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1 O. PLEASE EXPLAIN EXHIBIT V	W.IM-3	OF YOUR	REPORT
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- 2 A. Exhibit WJM-3, consisting of two pages, is the depreciation schedule for the assets obtained or owned by MUI during the July 1, 2003 through June 30, 2004 test year. The depreciation service life for several items on the list has expired.
- 5 Q. PLEASE EXPLAIN THE MAJOR ASSETS ASSOCIATED WITH MUI.
  - A. MUI's major assets include its wastewater collection lines and pump stations in Richland, Lexington, Orangeburg, and Fairfield Counties, treatment systems in Richland and Lexington Counties, and the office building and storage shed in the Town of Lexington. The office building houses the laboratory for minor wastewater testing and is used by both MUI and BRUI. Miscellaneous items include several trucks, pressure truck, backhoe, computers, chemical feed system, and an emergency generator. While several of the assets were purchased and mainly used by MUI, they are also used for operations associated with the other two companies owned by the Parnells, DSI and BRUI. Also, there are several items that were purchased by DSI and BRUI that are used by MUI. As an example, the down payment for a trencher was made by MUI. However, the remaining cost for the trencher was paid for by BRUI even though the asset is mainly used by MUI.

### 19 Q. WHAT SERVICE LIFE DO YOU ATTRIBUTE TO THESE ASSETS?

The service life should be based on the useful life of a piece of equipment and should not be related to a financing period. In a previous case involving MUI's sister companies DSI and BRUI, the Commission rejected a proposal by DSI and BRUI for an accelerated plant depreciation of 20 years and instead allowed the

BRUI utility plant to be depreciated over a 50-year life period. See, Commission
Order No. 96-44 (January 19, 1996), Docket No. 94-727-S - Application of
Development Service, Inc. for Approval of an Increase in Rates and Charges for
Sewer Service and Docket No. 94-728-S - Application of Bush River Utilities,
Inc. for Approval of an Increase in Rates and Charges for Sewer Service. MUI
has proposed that the depreciation schedule for its existing WWTFs have a 20-
year service life period. MUI proposed that the force and gravity sewer lines have
a 15-year service life period and that the new proposed plants have a 25-year
service life period. We recommend that the gravity sewer lines be capitalized and
depreciated over a 45-year average service life period and that the force sewer
lines be capitalized and depreciated over a 30-year average service life period.
ORS recommends that the existing WWTFs cost be capitalized and depreciated
over a 32-year average service life period and also that any new WWTFs cost be
capitalized and depreciated over a 32-year average service life period. ORS has
concerns with the depreciation schedule for several other items identified in the
MUI application. In addition, it should be noted that the specific location and use
of several items acquired by MUI could not be verified or identified. The ORS
complete schedule for average service life depreciation is outlined in the schedule
presented in Exhibit WJM-3. The ORS recommendations are based on the
conclusions outlined in the Florida Public Service Commission Water and
Wastewater System Regulatory Law as recommended by the NARUC staff. ORS
approach and conclusions made concerning depreciation are consistent with the
Public Utility Depreciation Practices manual as published by NARUC in 1996 as

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1		compiled by the Staff Subcommittee on Depreciation of the Finance and
2		Technology Committee.
3	Q.	PLEASE EXPLAIN EXHIBIT WJM-5 OF YOUR REPORT.
4	A.	Exhibit WJM-5, consisting of twelve pages, sets forth a summary of both the
5		collection and treatment systems inspected by ORS.
6		Collection Systems
7		MUI currently provides adequate wastewater collection service to its residential
8		and commercial customers. The only deficiency identified during this portion of
9		the inspection is the need to include the area code on the signs with the
10		emergency telephone number that is located on the fence for the pump stations
11		located in Orangeburg and Fairfield Counties. There is neither construction
12		activity being proposed by MUI for its collection portion of its systems nor is
13		there an immediate need for an upgrade or reconstruction of the collection portion
14		of the systems.
15		Treatment Systems
16		Inspections of the treatment portions of the systems which discharge treated
17		wastewater to either a sprayfield or surface water bodies revealed the following
18		deficiencies:
19		Bellemeade in Lexington County
20		1. The WWTF is under a consent order with DHEC for NPDES (SC0030988)
21		violations. It exceeded the permitted discharge limits for ammonia-nitrogen

coliform bacteria (FC), pH and total residual chlorine (TRC).

(NH3-N), biochemical oxygen demand (BOD), dissolved oxygen (DO), fecal

Raintree	Acres/Dutch	Creek in Richland	County

2. The WWTF is under a consent order with DHEC for NPDES (SC0039055) violations. It exceeded the permitted discharge limits for biochemical oxygen demand (BOD), Flow, and fecal coliform bacteria (FC). Also, it failed to properly sample for pH and dissolved oxygen (DO) on a daily basis and fail to operate and maintain the WWTF in accordance with the NPDES permit.

### Windy Hill in Lexington County

- 3. The berm surrounding the lower sprayfield unit is breached near the center of the sprayfield adjacent to the fence. The breached area appears to have been caused by continuing erosion that has gone unrepaired by MUI. See Exhibit WJM-6. This breach could allow overflow of any excess effluent sprayed in this area of the sprayfield. The berm should be repaired as soon as possible.
- 4. Virginia pine trees planted along the berms are limiting the evaporation process within the sprayfield. Some of the trees are over 30 feet tall and are providing shade over a large portion of the three sprayfield units. See Exhibit WJM-7. The excessive shade reduces the function of the sprayfield by limiting evaporation. Undergrowth, encroaching along the edges of the sprayfield units, is also reducing the function of the sprayfield. See Exhibit WJM-8. The pine trees should be cut and the undergrowth should be removed to allow the sprayfield to function properly.
- 5. The WWTF is under a consent order with DHEC for violating its Land Application Permit (ND0067075). It exceeded the permitted discharge limit for biochemical oxygen demand (BOD).

1	Q.	PLEASE EXPLAIN YOUR UNDERSTANDING OF HOW THE
2		PROPOSED NEW TREATMENT SYSTEMS WILL BE CONSTRUCTED?
3	A.	Currently, the existing treatment systems are not meeting the limits in their
4		National Pollutant Discharge Elimination System (NPDES) permits. This
5		problem may be due to poor operations and maintenance and/or design problems
6		restricting the units from being able to meet the permit limits. To remedy this
7		situation, MUI has chosen to use the Sequential Batch Reactor (SBR) technology
8		for each of these WWTFs. The proposed disinfection units to be installed in
9		conjunction with the SBRs are Ultra Violet (UV) disinfection type systems.
10		In an effort to achieve compliance with the DHEC Consent Orders (03-043-W,
11		03-044-W, and 03-048-W) and to consistently meet the limits in its NPDES
12		permits and the Land Application Discharge permit, MUI indicated that it did not
13		explore options for addressing its compliance problems. A thorough cost analysis
14		should have been reviewed to determine the best alternative for meeting the
15		various permit conditions for MUI's WWTFs. To determine the best alternative
16		relative to the cost impact on the customers of MUI, all options should have been
17		explored in detail. However, MUI produced no cost analyses. ORS is, therefore,
18		unable to conclude that the proposed upgrades are the best option for MUI or its
19		customers.
20	Q.	PLEASE EXPLAIN YOUR UNDERSTANDING OF THE COSTS THAT
21		WOULD BE ASSOCIATED WITH THE NEW PROPOSED UPGRADES
22		TO MUI'S WWTFs.

A.

At the time of this testimony, the proposed upgrades to the three WWTFs owned
and operated by MUI were in various stages of approval with DHEC. MUI has
not provided a copy of its proposed or DHEC-approved plans to our office for
review for any of the proposed upgrades. This information was requested as part
of ORS' data requests. Therefore, it is impossible to attach a reasonable cost
projection for the construction work that is proposed by MUI. However, ORS has
outlined a depreciation schedule for the loan agreement associated with the
proposed construction for MUI by backing out the BRUI proposed construction
costs and closing costs for the total loan amount. This schedule of service life is
outlined in Exhibit WJM-4. It should be noted that this amount does not coincide
with the cost estimate provided by Mr. Keith Parnell in his prefiled direct
testimony. The loan agreement amount after considerations of the BRUI's
upgrade is \$1,007,530 for MUI. Mr. Parnell's prefiled direct testimony states
\$1,582,000 is the amount needed for construction upgrades to MUI's WWTFs.
The MUI's data request response to question 1.5 concerning the amount needed
for construction upgrades states that approximately \$1,000,000 is needed for
construction upgrades. Moreover, there is no information to determine the total
cost of the separate WWTFs or their individual components. In addition, other
factors that are brought forward by DHEC and ORS as the planning and approval
process for the upgrades proceed may alter the costs. Some of these issues are
listed below:

Mr. Keith Parnell advised ORS that the preliminary engineering report (PER) was
submitted on February 1, 2005, to DHEC by MUI. This document has yet to be
approved by DHEC. A construction permit application for the design of the new
system must be submitted and approved by DHEC before construction can be
initiated. Without an approved construction permit, MUI cannot begin to attribute
any projected cost to the construction of the proposed WWTF. Furthermore, ORS
is concerned that the current discharge point into the ditch may need to be moved
further downstream. The existing stream flow in the ditch receiving the effluent
from the WWTF is very shallow and may even dry up completely during dry
periods. In order to meet permit limits, the discharge point may need to be moved
further downstream. This change would add further cost to the proposed upgrade.
Raintree Acres/Dutch Creek in Richland County
Mr. Murali Koppa with DHEC advised ORS that on January 31, 2005, MUI
submitted PER revisions to DHEC. This document was approved by DHEC on
February 3, 2005. A construction permit application for the design of the new
system must be submitted and approved by DHEC before construction can be
initiated. Without an approved construction permit, MUI cannot begin to
reasonably project the cost of the construction for the proposed WWTF.
Windy Hill in Lexington County
DHEC has approved the PER and the construction permit for the proposed new
WWTF. The construction permit was approved by DHEC on January 25, 2005.
However, ORS has not received any detailed or overall cost estimates for this
WWTF upgrade. In addition, ORS has not received a copy of the approved

construction plans from MUI as requested in its Data Request. However, from
discussions with Mr. Keith Parnell and the data request response received by ORS
on February 8, 2005, ORS is informed that the WWTF upgrade will include an
"UV" disinfection type system. It appears that the current
chlorination/dechlorination disinfection system is working adequately, and the
WWTF was not cited by DHEC in the consent order for not meeting FC or TRC
limits. Violations of FC or TRC limits are problems that would be associated
with inadequate wastewater disinfection treatment. While the proposed "UV"
type of disinfection system could be effective, it is imperative that MUI properly
maintain the treatment process and control the level of its total suspended solids
("TSS") in the wastewater that passes through the unit. Because of concerns
related to the current management practices, I am apprehensive about whether
MUI should be allowed to expend revenue generated from customers on a system
that requires efforts to remove such high levels of solids. An alternative
disinfection method would be continuing use of the existing
chlorination/dechlorination system. This is a proven method that is utilized by
most WWTFs in South Carolina, and the unit is already in place and appears to be
functioning properly. Because the existing disinfection portion of the treatment
system appears to be functioning properly, the ORS staff has not been shown that
a new disinfection system is needed. Some upgrades are needed, but ORS cannot
recommend or agree to all upgrades requested. Therefore, ORS recommends that
the Commission not approve rates to allow MUI to expend customer revenue on
expenditures for unnecessary upgrades.

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Consequently, ORS concludes that the construction cost is not known or
measurable. If the Commission finds that certain adjustments are prudent relative
to the proposed construction, then ORS can review such relevant information
once MUI makes proper submission.

### O. DO YOU HAVE ANY ADDITIONAL RECOMMENDATIONS?

MUI should explore the potential use of the state's tax credit for pollution control equipment (See, S.C. Code Ann. Section 12-37-220(A)) and the state's tax credit for the construction or improvement of an infrastructure (See, S.C. Code Ann. Section 12-6-3420). Use of these tax credits could help to reduce the overall cost of any upgrades to MUl's WWTFs, thus reducing the burden of new construction on MUI's customers. In addition, potential cost savings may be obtained by utilizing an open bidding process to allow multiple vendors to submit proposals for upgrading the MUI WWTFs. MUI should not rely solely on HPG and Company, the consulting firm of Mr. Charles K. Parnell, and a single proposal for addressing the needs of its WWTFs upgrades. Multiple options should be considered from other capable contractors and vendors who are not affiliated with MUI before agreeing on a proposal. Further, MUI should pursue alternative disposal methods (i.e., land application, recycling, etc.) for its sludge management method. DHEC has a Center for Waste Minimization (CWM) that can assist with this effort. The CWM is a free, clientoriented advisory service promoting the voluntary implementation of waste minimization by companies in South Carolina. The CWM is a non-regulatory

1	technical assistance program established to help business and industry identify
2	waste reduction and recycling opportunities.
3	These efforts can help to reduce MUI's construction and operating cost. There it
4	would reduce the burden of rate increases on its customers.

### 5 Q. DOES THAT CONCLUDE YOUR TESTIMONY?

6 A. Yes it does.

### **DIRECT EXHIBITS**

### **OF**

### WILLIE J. MORGAN

DOCKET NO. 2004-297-S
MIDLANDS UTILITY, INC.
APPLICATION FOR RATE INCREASE
TEST YEAR ENDED DECEMBER 31, 2003

### EXHIBIT INDEX OF THE WATER/WASTEWATER DEPARTMENT

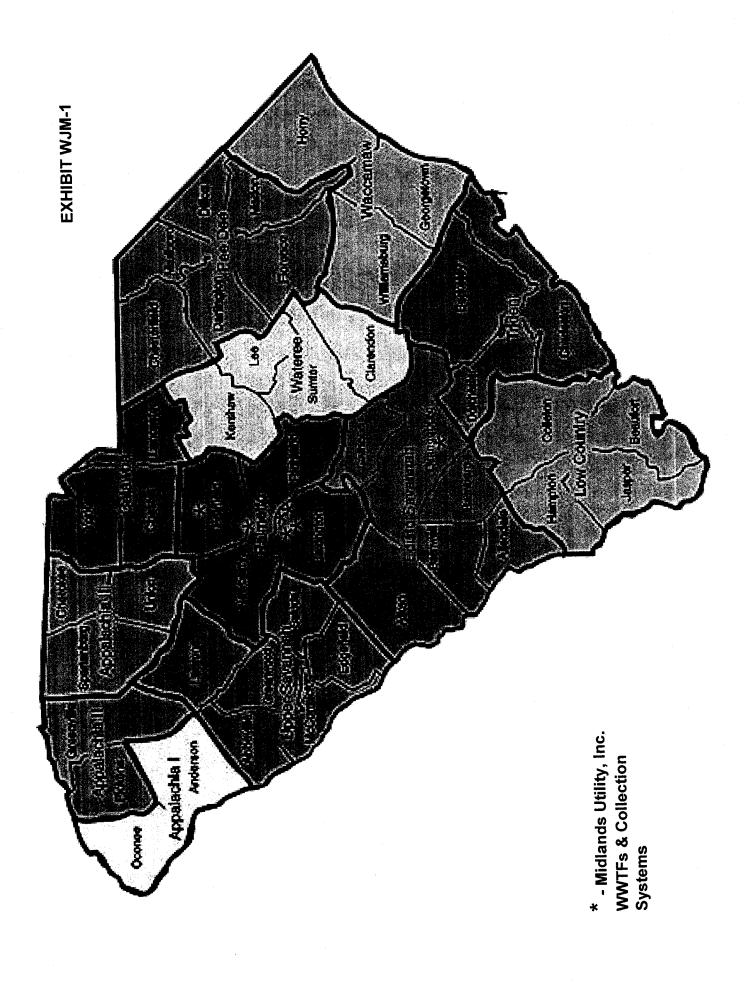
### THE OFFICE OF REGULATORY STAFF

### **DOCKET NO. 2004-297-S**

### MIDLANDS UTILITY, INC.

### WILLIE J. MORGAN TESTIMONY

EXHIBIT NO.	EXHIBIT TYPE	PREPARED BY
WJM-1	MUI WWTFs and Collection Lines Locations	DHEC
WJM-2	List of various MUI WWTFs and Collection Lines	ORS
WJM-3	Depreciation Service Life Schedule	ORS
WJM-4	Loan Depreciation Service Life Schedule	ORS
WJM-5	WWTFs and Collection Lines Inspection Reports	ORS
WJM-6	Windy Hill Sprayfield Photograph – Breached Berm	ORS
WJM-7	Windy Hill Sprayfield Photograph - Virginia Pines	ORS
WJM-8	Windy Hill Sprayfield Photograph – Undergrowth	ORS



# MIDLANDS UTILITY, INC. WWTFs AND COLLECTION SYSTEMS

						MIII Collection System/WWTF
	Subdivision	County	System Type	MUI DHEC Permit #	Treatment Facility	Address
-	Arborgate	Lexinaton	Collection	SSS000043	City of Cayce	SE/S of Fish Hatchery Rd.
^	2 Bellemeade		WWTF	SC0030988	Midlands Utility, Inc.	N SIDE KONICA CT
۱۳	3 Charwood	П	Collection	SSS000043	City of Cayce	SE/S of Fish Hatchery Rd.
4	4 Dutch Creek		WWTF (Raintree Acres)	SC0039055	Midlands Utility, Inc. (Raintree/Dutch Creek)	
5	Fox Glen	Lexington	Collection	SSS000043		Whispering Glen Cir & S. Woodside Pwy
9	6 Henwood	Lexington	Collection	SSS000043	City of Cayce	Whispering Glen Cir & S. Woodside Pwy
_	7 Mallard Trace	Lexinaton	Collection	SSS000043	City of Cayce	SE/S of Fish Hatchery Rd.
. &	8 Montclair	Lexington	Collection	SSS000043	City of Cayce	Whispering Glen Cir & S. Woodside Pwy
6	9 Northwood Estates	Orangeburg Collection	Collection	Not Issued	Orangeburg Department of Public Utilities	1817 Northwood Dr.
9	10 Parkwood	Lexington	Collection	SSS000043	City of Cayce	Whispering Glen Cir & S. Woodside Pwy
7	11 Quinton Commons	Lexington	Collection	SSS000043	City of Cayce	Whispering Glen Cir & S. Woodside Pwy
12	12 Raintree Acres	Richland	WWTF	SC0039055	Midlands Utility, Inc. (Raintree/Dutch Creek)	
13	13 Rockford Place	l exinaton	Collection	SSS000043	City of Cayce	SE/S of Fish Hatchery Rd.
4	14 Royal Hills	Fairfield	Collection	Not Issued	Town of Winnsboro	6 miles north of Winnsboro near Adger to the left of Hwy 321
15	Stonewood	Lexington	Collection	SSS000043	City of Cayce	Whispering Glen Cir & S. Woodside Pwy
16	Timberland	Lexington	Collection	SSS000043	City of Cayce	Whispering Glen Cir & S. Woodside Pwy
17	17 Vanarssdale	Lexington	Collection	Not Issued	Carolina Water Service, Inc.	S SIDE INT TO LANDER & ALLENDALE DR.
18	18 Westgate	Lexington	Collection	SSS000043	City of Cayce	Whispering Glen Cir & S. Woodside Pwy
19	19 Windy Hill	Lexington	WWTF	ND0067075	Midlands Utility, Inc.	S. Side of Crosshill Rd.

# ASSET DEPRECIATION SERVICE LIFE SCHEDULE FOR THE TEST YEAR ENDED JUNE 30, 2004

Location	Service of	Life Asset	**		15 Detailed Location & Use Description Unavailable	30 Detailed Location & Use Description Unavailable	30 Detailed Location & Use Description Unavailable	_	5 Detailed Location & Use Description Unavailable	25 Detailed Location & Use Description Unavailable	FD Item Identification Unavailable	FD Item Identification Unavailable	5 Bellemeade (Cayce- Lex. County)		30 West Columbia		_		15 Detailed Location & Use Description Unavailable		_						_	_	45 Vanarsdale (West ColaLex. County)	_	FD Vanarsdale (West ColaLex. County)	_	_		_	18 Bellemeade (Cayce- Lex. County)
	S	Amount	₩	124,500	64,429	1,776	3,589	89,659	3,087	55,490	1,484,661	13,912	6,758	1,254	42,666	23,213	19,473	15,801	840	161,243	11,107	8,822	8,814	3,243	4,254	135,510	3,260	10,958	14,997	3,670	63,000	2,341	21,686	67,543	25,850	16,735
		1 Description	1	Utility Plant (FL#354)	Pumps Pipe MTS (FL#380)	PVC Pipe (FL#360)			_		_	_	_	Ŭ	_									_	_		•			_		_	_		Packhoe (FL#395)	
	Date	Acquired		Jul-78	Jan-80	Mav-80	Aug-80	Mar-86	Aug-86	Feb-87	Sep-87	Jan-88	Apr-88	Mav-88	Jan-91	Aug-91	Nov-91	Dec-91	Dec-91	Mar-92	Jul-92	Nov-92	Mar-93	Jan-94	Oct-94	Feb-95	Jul-95	Jul-95	Nov-95	Oct-96	Nov-96	Nov-96	Dec-96	Feb-97	Feb-97	Feb-97
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FD = Fully Depreciated

MIDLANDS UTILITY, INC/DEVELOPMENT SERVICE, INC./BUSH RIVER UTILITIES, INC.
DEPRECIATION SERVICE LIFE FOR LOAN AGREEMENT FUNDS
UTILITY PLANT UPGRADES

		Depreciation
		Service Life
	Amonnt	(Years)
BB&T Loan	2,021,400	
□ Loan ■ Bush River Utility, Inc.	8,913	32
Closing Development Service, Inc.	5,953	32
Gost Midlands Utility, Inc.	66,727	32
Bush River Utility, Inc. upgrade cost	932,278	32
Midlands Utility, Inc. upgrade cost	1,007,530	32
Midlands Utility, Inc. upgrade cost in data response (approximately)	1,000,000	32
Keith Parnell's Testimony for cost of Midlands Utility, Inc. upgrades	1,582,000	32



Utility Name:

Midlands Utility, Inc. - Windy Hill

Number of Customers: 135

System Type:

**Collection and Treatment System** 

Date Inspected: 1/26/05

Inspected By: Willie Morgan/Dawn Hipp - Office of Regulatory Staff

Company Representative: Keith Parnell

Type of Plant:

Collection and Biological Treatment System with Sprayfield

Extent of Treatment:

Biological Treatment with Sprayfield Discharge using an NPDES no discharge

permit (ND0067075)

System Components Inspected	Yes	No
Chlorinator	X	
Other Chemicals in Use Sulfur Dioxide	X	
Aerators	X	
Plant fenced and Locked	X	
Warning Signs Visible	X	
Holes in Fence		X
Erosion of Dikes <sup>1</sup>	X	
Odor		X
Grass Cut	X	
Duck Weed or Algae	X	<u> </u>
Grease Build Up		X
Debris inside of Plant <sup>3</sup>		X
Color of Effluent <sup>2</sup> :	Clear	
Lift Stations: Number Not Applicable	N/A	N/A
Failure Warning System	X	
Electric Wiring Acceptable	X	
Overflows <sup>1, 3</sup>		_X
Condition of Access Road: Good/Fair/Bad	Good	
New Construction		X

Frequency Checked by Licensed WWTF Operator:

1/day; 365 days/year

Location of Utility Office:

816 East Main Street, Lexington, SC 29072

Location of System:

Collection and Treatment System located in Lexington County

servicing the Windy Hill Subdivision.

Subdivision provided water by this Utility:

No

### ORS WASTEWATER SYSTEM INSPECTION CONTINUED

Comments:

This is a collection and treatment system that collects wastewater from residential customers and treats the wastewater prior to spraying on an adjacent sprayfield.

### Footnotes:

- 1. The berm surrounding the lower sprayfield unit is breached near the center of the sprayfield adjacent to the fence. This would allow an overflow of any excess effluent sprayed in this area of the sprayfield. The berm should be repaired as soon as possible.
- 2. The WWTF is under a consent order with DHEC for NPDES violations. It exceeded the permitted discharge limit for biochemical oxygen demand (BOD).
- 3. Virginia pine trees planted along the berms are limiting the evaporation process within the sprayfield. Some of the trees are over 30 feet tall and is providing shade over a large portion of the three sprayfield units. The excessive shade reduces the function of the sprayfield by limiting evaporation. Also, undergrowth is encroaching along the edges of the sprayfield units. This is also reducing the function of the sprayfield. The pine trees should be cut and the undergrowth should be removed to allow the sprayfield to function properly.



Utility Name:

Midlands Utility, Inc. - Bellemeade

Number of Customers: ~148

System Type: Collection and Treatment System

Date Inspected: 1/25/05

Inspected By: Willie Morgan/Dawn Hipp - Office of Regulatory Staff

Company Representative: Keith Parnell

Type of Plant:

Collection and Biological Treatment System

Extent of Treatment:

Biological Treatment with Surface Water Discharge using NPDES permit

(SC0030988)

System Components Inspected	Yes	No
Chlorinator	X	
Other Chemicals in Use <b>Sodium Dioxide</b>	X	
Aerators	X	
Plant fenced and Locked	X	
Warning Signs Visible	X	
Holes in Fence		Χ
Erosion of Dikes		X
Odor		X
Grass Cut	X	
Duck Weed or Algae	X	
Grease Build Up	X	
Debris inside of Plant		X
Color of Effluent <sup>1</sup> :	Clear	
Lift Stations: Number 1 (inside fence @WWTF)	X	
Failure Warning System	X	
Electric Wiring Acceptable	X	
Overflows		X
Condition of Access Road: Good/Fair/Bad	Good	
New Construction		X

Frequency Checked by Licensed WWTF Operator:

1/day; 365 days/year

Location of Utility Office:

816 East Main Street, Lexington, SC 29072

Location of System:

Collection and Treatment System located in Lexington County

servicing an area south of the City of Cayce off US 321.

Subdivision provided water by this Utility:

No

### ORS WASTEWATER SYSTEM INSPECTION CONTINUED

Comments:

This is a collection and treatment system that collects wastewater from residential and a few commercial customers and treats the wastewater prior to discharge into an unnamed tributary.

### Footnotes:

4. The WWTF is under a consent order with DHEC for NPDES violations. It exceeded the permitted discharge limits for ammonia-nitrogen (NH3-N), biochemical oxygen demand (BOD), dissolved oxygen (DO), fecal coliform bacteria (FC), pH and total residual chlorine (TRC).



Utility Name: Midlands Utility, Inc. - Fox Glen, etc. Number of Customers: ~412

System Type: Collection System Date Inspected: 10/12/04

Inspected By: Willie Morgan/Dawn Hipp - Office of Regulatory Staff

Company Representative: Keith Parnell

Type of Plant: Collection System w/Pump Station

Extent of Treatment: Discharge to City of Cayce

System Components Inspected	Yes	No
Chlorinator	NA NA	NA
Other Chemicals in Use	NA	NA
Aerators	NA	NA
Plant fenced and Locked	NA	NA
Warning Signs Visible	Х	
Holes in Fence		X
Erosion of Dikes	NA NA	NA
Odor		Х
Grass Cut	X	
Duck Weed or Algae	NA .	NA
Grease Build Up	NA NA	NA
Debris inside of Plant	NA	NA
Color of Effluent:	NA	NA
Lift Stations: Number: 2	X	
Failure Warning System	Х	
Electric Wiring Acceptable	X	
Overflows		Х
Condition of Access Road: Good/Fair/Bad	Good	
New Construction		Х

Frequency Checked by Licensed WWTF Operator:

1/day; 365 days/year

Location of Utility Office:

816 East Main Street, Lexington, SC 29072

Location of System:

Collection System located in Lexington County servicing an area on

the west side of the City of Cayce, SC mainly along US HWY1 past I-

26.

Subdivision provided water by this Utility:

No

Comments:

This is a collection system that collects wastewater from residential and few commercial customers and pumps the wastewater to the City of Cayce.



Midlands Utility, Inc. - Northwood Estates Utility Name:

Number of Customers: 71

System Type:

**Collection System** 

Date Inspected: 1/26/05

Inspected By: Willie Morgan/Dawn Hipp - Office of Regulatory Staff

Company Representative: Keith Parnell

Type of Plant:

Collection System w/Pump Station

Extent of Treatment:

Discharge to Orangeburg Dept. of Public Works

System Components Inspected	Yes	No
Chlorinator	NA	NA
Other Chemicals in Use	NA	NA
Aerators	NA	NA
Plant fenced and Locked	NA	NA
Warning Signs Visible <sup>1</sup>	Х	
Holes in Fence		Χ
Erosion of Dikes	NA	NA
Odor		X
Grass Cut	X	
Duck Weed or Algae	NA	NA
Grease Build Up	NA	NA
Debris inside of Plant	NA	NA
Color of Effluent:	NA	NA
Lift Stations: Number: 2	X	
Failure Warning System	X	
Electric Wiring Acceptable	X	
Overflows		Χ
Condition of Access Road: Good/Fair/Bad	Good	
New Construction		X

Frequency Checked by Licensed WWTF Operator:

1/day; 365 days/year

Location of Utility Office:

816 East Main Street, Lexington, SC 29072

Location of System:

Collection System located in Orangeburg County servicing an area on

the south side of the City of Orangeburg, SC

Subdivision provided water by this Utility:

No

### ORS WASTEWATER SYSTEM INSPECTION CONTINUED

Comments:

This is a collection system that collects wastewater from residential customers and pumps the wastewater to the Orangeburg Dept. of Public Utility.

### Footnotes:

5. The telephone number listed on the signs for persons to call in case of an emergency needs to be changed to include the area code. These signs are located on the fence around the pump stations in the Northwood Subdivision. The location of the pump station is outside of the local calling area for the existing number that is on the sign for callers to use in case of an emergency.



Utility Name: Midlands Utility, Inc. - Raintree Acres/Dutch Creek Number of Customers: ~312

System Type: Collection and Treatment System Date Inspected: 1/26/05

Inspected By: Willie Morgan/Dawn Hipp - Office of Regulatory Staff

Company Representative: Keith Parnell

Type of Plant: Collection and Biological Treatment System w/Pump Station

Extent of Treatment: Biological Treatment with Surface Water Discharge using NPDES permit

(SC0039055)

System Components Inspected	Yes	No
Chlorinator	Х	
Other Chemicals in Use: Sodium Dioxide	X	
Aerators: 2 on system; only 1 operating	X	
Plant fenced and Locked	X	
Warning Signs Visible	X	
Holes in Fence		X
Erosion of Dikes		X
Odor		X
Grass Cut	X	
Duck Weed or Algae	X	
Grease Build Up	X	
Debris inside of Plant		X
Color of Effluent <sup>1</sup> :	Clear	
Lift Stations: Number 2	Х	
Failure Warning System	X	
Electric Wiring Acceptable	X	
Overflows		X
Condition of Access Road: Good/Fair/Bad	Good	
New Construction		X

Frequency Checked by Licensed WWTF Operator:

1/day; 365 days/year

Location of Utility Office:

816 East Main Street, Lexington, SC 29072

Location of System:

Collection and Treatment System located in Richland County servicing the Raintree Acres and Dutch Creek Subdivisions.

Subdivision provided water by this Utility:

No

### ORS WASTEWATER SYSTEM INSPECTION CONTINUED

Comments:

This is a collection and treatment system that collects wastewater from residential customers and treats the wastewater prior to discharge into the Broad River.

### Footnotes:

6. The WWTF is under a consent order with DHEC for NPDES violations. It exceeded the permitted discharge limits for biochemical oxygen demand (BOD), Flow, and fecal coliform bacteria (FC). Also, it failed to properly sample for pH and dissolved oxygen (DO) on a daily basis and fail to operate and maintain the WWTF in accordance with the NPDES permit.



Utility Name:

Midlands Utility, Inc. - Royal Hills

Number of Customers: 37

System Type: Collection System

Date Inspected: 1/26/05

Inspected By: Willie Morgan/Dawn Hipp - Office of Regulatory Staff

Company Representative: Keith Parnell

Type of Plant:

Collection System w/Pump Station

Extent of Treatment:

Discharge to Town of Winnsboro

System Components Inspected	Yes	No
Chlorinator	NA	NA
Other Chemicals in Use	NA	NA
Aerators	NA	NA
Plant fenced and Locked	NA	NA
Warning Signs Visible <sup>1</sup>	Х	
Holes in Fence		Χ
Erosion of Dikes	NA	NA
Odor		X
Grass Cut	X	
Duck Weed or Algae	NA	NA
Grease Build Up	NA	NA
Debris inside of Plant	NA	NA
Color of Effluent:	NA	NA
Lift Stations: Number: 2	X	
Failure Warning System	X	
Electric Wiring Acceptable	Х	
Overflows		Х
Condition of Access Road: Good/Fair/Bad	Good	
New Construction		Х

Frequency Checked by Licensed WWTF Operator:

1/day; 365 days/year

Location of Utility Office:

816 East Main Street, Lexington, SC 29072

Location of System:

Collection System located in Fairfield County servicing an area on

the north side of the City of Winnsboro, SC

Subdivision provided water by this Utility:

No

### ORS WASTEWATER SYSTEM INSPECTION CONTINUED

Comments:

This is a collection system that collects wastewater from residential customers and pumps the wastewater to the Town of Winnsboro.

### Footnotes:

7. The telephone number listed on the signs for persons to call in case of an emergency needs to be changed to include the area code for callers to use. These signs are located on the fence around the pump stations in the Royal Hills Subdivision. The location of the pump station is outside of the local calling area for the existing number that is on the sign for callers to use in case of an emergency.



Utility Name:

Midlands Utility, Inc. - Vanarssdale

Number of Customers: ~412

System Type:

**Collection System** 

Date Inspected: 1/25/05

Inspected By: Willie Morgan/Dawn Hipp - Office of Regulatory Staff

Company Representative: Keith Parnell

Type of Plant:

Collection System w/Pump Station

Extent of Treatment: Discharge to Carolina Water Service

System Components Inspected	Yes	No
Chlorinator	NA	NA
Other Chemicals in Use	NA	NA
Aerators	NA	NA
Plant fenced and Locked	NA NA	NA
Warning Signs Visible	X	
Holes in Fence		Х
Erosion of Dikes	NA	NA
Odor		Χ
Grass Cut	X	
Duck Weed or Algae	NA NA	NA
Grease Build Up	NA NA	NA
Debris inside of Plant	NA	NA
Color of Effluent:	NA	NA
Lift Stations: Number: Not Applicable	N/A	N/A
Failure Warning System	Х	
Electric Wiring Acceptable	Х	
Overflows		X
Condition of Access Road: Good/Fair/Bad	Good	
New Construction		Х

Frequency Checked by Licensed WWTF Operator:

1/day; 365 days/year

Location of Utility Office:

816 East Main Street, Lexington, SC 29072

Location of System:

Collection System located in Lexington County servicing an area on

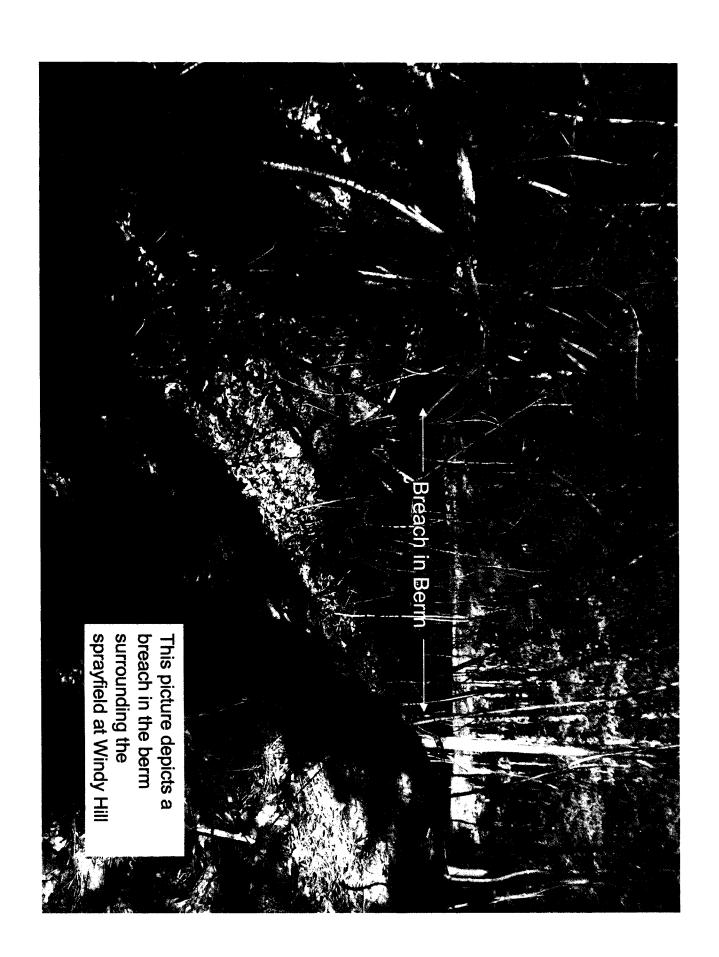
the west side of the City of West Columbia, SC

Subdivision provided water by this Utility:

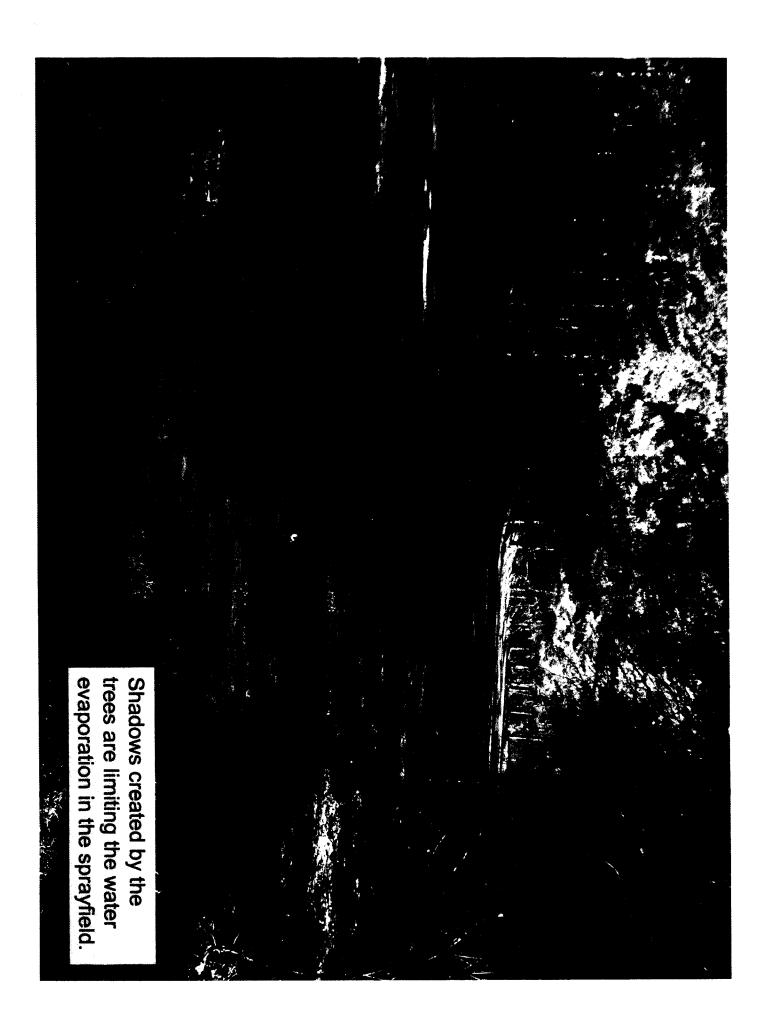
Comments:

This is a collection system that collects wastewater from residential and few commercial customers and pumps the wastewater to Carolina Water Service.

# EXHIBIT WJM-6



## EXHIBIT WJM-7



# EXHIBIT WJM-8

